

FOR DISCUSSION ONLY

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**PROPOSED CLAIM AMENDMENTS IN RESPONSE TO**  
**FINAL OFFICE ACTION DATED AUGUST 13, 2003**

1. (currently amended) A method of predicting future locations of a moving object, comprising the steps of:

receiving a current location of the moving object;

obtaining a destination of the moving object;

computing a path along which the moving object travels from the current location to the

destination; and

constructing a <sup>model</sup> trajectory for predicting future locations of the moving object, wherein the trajectory approximates a time-based motion of the moving object along the path;

using the trajectory to predict a plurality of future locations of the moving object; and ??

displaying the future locations of the moving object on a map so as to show the moving object moving along the path from the current location to the destination.

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receiving a current location of the moving object;

obtaining a destination of the moving object;

computing a path along which the moving object travels from the current location to the

destination; and

constructing a trajectory for predicting future locations of the moving object, wherein the

trajectory approximates a time-based motion of the moving object along the path;

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using the trajectory to predict a corresponding future location of the moving object for each of a plurality of different future times; and

when a current time approximately equals each of the future times, displaying the corresponding future location of the moving object on a map so as to show the moving object moving along the path from the current location to the destination.

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receiving a current location of the moving object;

obtaining a destination of the moving object;

computing a path along which the moving object travels from the current location to the destination; and

constructing a trajectory for predicting past and future locations of the moving object, wherein the trajectory approximates a time-based motion of the moving object along the path; and:

using the trajectory to predict a plurality of past and future locations of the moving object.

1. (currently amended) A method of predicting future locations of a moving object, comprising the steps of:

receiving a current location of the moving object;

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obtaining a destination of the moving object;

computing a path along which the moving object travels from the current location to the destination; and

constructing a trajectory for predicting future locations of the moving object, wherein the trajectory approximates a time-based motion of the moving object along the path;

receiving periodic requests for a current location of the moving object; and

in response to each request, using the trajectory to predict the current location of the moving object and responsively returning the current location of the moving object.

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receiving a current location of the moving object;

obtaining a destination of the moving object;

computing a path along which the moving object travels from the current location to the destination; and

constructing a trajectory for predicting future locations of the moving object, wherein the trajectory approximates a time-based motion of the moving object along the path; and

receiving a request for a future location of the moving object at a specified future time;

using the trajectory to predict the future location of the moving object at the specified future time; and

returning the future location of the moving object at the specified future time.